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;***** USER DEFINED PROCEDURE "splitstring"
;*****
;RN
;Version history
;10/12/2008 - RN, creation
;
;PURPOSE:
;To split an entire array of strings into substrings based on a certain pattern:
;Modifies the strsplit function to output directly into arrays (upto max 10)
;
;SYNTAX:
;splitstring,str,substr,arr0,arr1,...,arr9
;str - string which is to be split
;substr - substring pattern that splits string into constituents (entered as a string)
;arr0... arr9 - output arrays (10 in total)
;
;NOTES:
;arr0... arr9 are all output as strings, they can be converted using the corresponding function (int, long,
etc.)
;arr0... arr9 do not need to be declared before calling the procedure
;The number of arrays passed should be equal to the number of substrings present
;in the first element of the string array passed (str[0]). Number of substrings in all elements of str should
be equal
;Frequent uses include splitting a text date (mm/dd/yy) into month, day and year with the split pattern '/'
and
;splitting subsbrk after calling a subset to get the unique records.
;
;EXAMPLE:
;For a dataset with elements "Date","Analyte","Station","Method",
;assuming that the unique id created was uniqid=date+_analyte+_station+_method
;splitstring,unqid,'_+',dat,ana,sta,met
;The resulting arrays - dat,ana,sta and met are all strings. To convert back dat to long: date=long(dat)
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pro splitstring,str,substr,arr0,arr1,arr2,arr3,arr4,arr5,arr6,arr7,arr8,arr9,arr10,arr11,arr12
    nobs=n_elements(str)
    junk=strsplit(str[0],substr,count=count)
    ;Now, the number of parameters passed should be equal to the number of arrays + 2 (the main
string array and the substring)
    x=n_params()
    if x ne count+2 then begin
        print, 'Incorrect number of arguments --- check number of arrays passed'
        stop
    endif

    ;Now define variables
    for i=0,count-1 do begin
        varname='var'+strtrim(string(i),2)
        command=varname+'=strarr(nobs)'
        result=execute(command)
        if result eq 0 then stop
    endfor

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;Now start splitting the strings
for i=0L,nobs-1 do begin
    junk=ststrsplit(str[i],substr,/extract)
    for j=0,count-1 do begin
        varname='var'+strtrim(string(j),2)
        varname2='junk['+strtrim(string(j),2)+']'
        command=varname+'[i]='+varname2
        result=execute(command)
        if result eq 0 then stop
    endfor
endfor

;Now replace arr0...arr9 with the right values
for i=0,count-1 do begin
    varname='var'+strtrim(string(i),2)
    varname2='arr'+strtrim(string(i),2)
    command=varname2+'='+varname
    result=execute(command)
    if result eq 0 then stop
endfor
end
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